

MathWorks 10 Teacher Resource

Errata

Printings of *MathWorks 10 Teacher Resource* contain the following errors. We apologize for any inconvenience these may have caused.

MathWorks 10 Teacher Resource Errors	
Page no.	Correction
60	#1b) For clarity, the question should be written as: “Fill in the table indicating the total cost according to the number of people attending, and show your calculations below.”
61	#3b) At the end of the question, the following should be added: “(Remember that the cans are only available in the quantities given above.)”
62	Part A: Multiple Choice, #1 In the final line of the calculation for Store B, the calculation should be: $\$13.00 \times 3 = \39.00
62	Part B: Short Answer, #1a) The solution should be: $\frac{\$69.07}{10 \text{ tiles}} = \$6.91/\text{tile}$
63	#3b) The solution should be replaced with: “Calculate how many 24-can cases can be bought for \$500.00. $\$500.00 \div \$30.69 \approx 16.3$ You cannot buy partial cases of soup, so the answer must be rounded down. Calculate how many cans of soup are in 16 cases. $16 \times 24 = 384$ The school can buy 384 cans of soup.”
64	#5b) The final steps of the solution should be replaced with: “Then consider the difference in fuel costs per kilometre. $\$0.127 \text{ 72} - \$0.111 \text{ 24} = \$0.016 \text{ 48}$ If you save 1.648 cents per kilometre by driving the hybrid model, how many kilometres do you need to drive to save \$1384.00? $\frac{\$1384.00}{\$0.016 \text{ 48}} \approx 83 \text{ 981}$ You would need to drive 83 981 km to save enough in fuel costs to pay the extra cost of the hybrid model.”

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96	Build Your Skills #3, Method 1, first paragraph The last sentence should read: “See p. 92 for an additional discussion of calculating weeks in a month.”
96	Build Your Skills #3, Method 2, first paragraph The last sentence should read: “...dividing by 12 to find the average number of hours he worked in a month.”
120	#10 The second sentence should be revised to read: “...and \$40.00 for parking, which is not tax-deductible.”
123	#9 The following note should be added: “Answers below are for the 2008 taxation year.”
123	#10 The following note should be added: “Answers below are for the 2008 taxation year.” The calculation should be revised as follows: “Subtract before-tax deductions from the gross earnings. $\$3425.00 - \$15.00 - \$225.00 = \3185.00 Look up the tax tables for Saskatchewan. Federal tax: \$318.25 SK tax: \$245.50”
184	#3 The possible answers should be rounded to the nearest square yard. a) 67 yd ² b) 62 yd ² c) 81 yd ² d) 90 yd ²
188	#3c) The final calculation should be rounded to the nearest square yard. Area: 8.20 yd \times 9.84 yd \approx 81 yd ²
252	#3 The multiple-choice answer b) should be 7.
255	#3 The answer should be revised as follows: b) $C = \frac{5}{9}(F - 32)$ $C = \frac{5}{9}(45 - 32)$ $C = \frac{5}{9}(13)$ $C \approx 7$ 45 degrees Fahrenheit is approximately 7 degrees Celsius.

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291	<p>Mental Math and Estimation</p> <p>Answers b) and d) should be revised as follows:</p> <p>b) Students will be able to see instantly that this angle is more than 180°, but not quite big enough to add another 45°. So they may describe it as a straight angle (180°) plus about two-thirds of a right angle (60°), and come up with a close estimate of 240°.</p> <p>d) The acute angle in the top left corner is approximately 45°. The obtuse angle in the lower left corner can be estimated as a right angle plus about a 45° angle, so a close estimate will be about 135°.</p>
296	<p>5.2 Build Your Skills #4</p> <p>The answers for $\angle B$ and $\angle C$ should be revised as follows:</p> <p style="padding-left: 40px;">$\angle B$ measures 120°. The bisected angle is 60°.</p> <p style="padding-left: 40px;">$\angle C$ measures 140°. The bisected angle is 70°.</p>
319	<p>#1d) The answer should be revised as follows:</p> <p style="padding-left: 40px;">“Answers will vary based on students’ drawings. The distance to be travelled is approximately 388 m at a true bearing of 64°.”</p>
370	<p>Part B: Short Answer, #1</p> <p>Change the question to read: “The figure MNOP is similar to ABCD and was created using a scale factor of $\frac{2}{3}$.”</p> <p>The diagrams are not drawn to scale. This will be corrected in future printings.</p>
375	<p>Part B: Short Answer #1b): Change the first sentence to read:</p> <p style="padding-left: 40px;">“Each of the side lengths should be multiplied by $\frac{2}{3}$.”</p>
377	<p>Blackline Master 6.1: The following items should be added to the checklist:</p> <ul style="list-style-type: none"> • A sketch or computer-generated visual tour of your room • A separate sheet of paper with your calculations that includes the measurements of each piece of gaming equipment or furniture in your room • The sizes of your scale diagrams and how you calculated those sizes • Other notes

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422	<p>Diagram 3, Method 2 (right-hand column, just above Alternative Solution)</p> <p>The calculation should be as follows:</p> $\sin R = \frac{r}{t}$ $0.4318 = \frac{2.6}{t}$ $t \times 0.4318 = \frac{2.6}{t} \times t$ $\frac{0.4318t}{0.4318} = \frac{2.6}{0.4318}$ $t \approx 6.0$
428	<p>#3 The link to the National Film Board of Canada website should be: http://www.nfb.ca</p>
429	<p>#6 The Pythagorean theorem calculation should be as follows:</p> $h^2 + \ell^2 = c^2$ $1^2 + \ell^2 = 3^2$ $1 + \ell^2 = 9$ $\ell^2 = 8$ $\ell = \sqrt{8}$ $\ell \approx 2.8$